



## Multicam 11

### New Configuration Concept

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## MULTICAM 11 OVERVIEW

### 1. Introduction

With the release of Multicam 11, a new configuration concept has been implemented by developing new setup screens with the goal of simplifying an engineer's job.

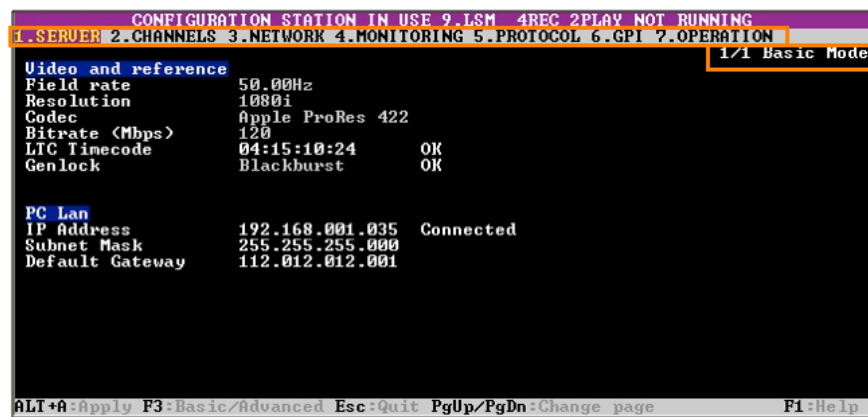
The need for these changes has resulted from feedback collected over the years by our support teams via contact with customers.

Before releasing the new Multicam version, several prototypes have been developed and tested by different end-users before approving the final outcome.

### 2. Underlying elements of the new concept

Changes have been driven by the following elements:

#### 2.1. Consolidating all configuration possibilities into one interface



A unique interface made up of seven tabs allows easy access to all parameters.

#### 2.2. Simplifying configuration screens

- Separation of basic and advanced parameters :  
Common parameters are displayed in "basic" mode while the complex ones remain hidden. The latter ones can be displayed by selecting the "advanced" mode.
- Filtering displayed parameters:  
Parameters remain hidden depending on chassis type, video standard and option codes.

#### 2.3. Changing parameters while the server is running

Most parameters can be changed while the server is running.

#### 2.4. Simplifying audio configuration

It is now possible to :

- Change audio parameters while the server is running.
- Configure individual outputs for embedded, digital and analog audio.
- Configure audio monitor settings directly from the remote control panel.

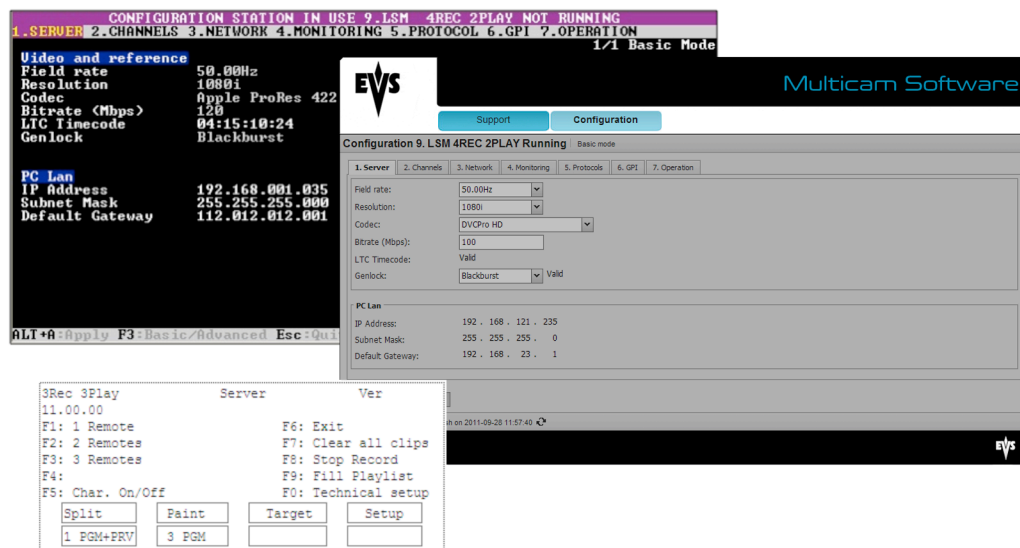
Advanced audio settings : inputs						Advanced audio settings : Outputs					
OUT1						OUT2					
PGM 1						PGM 2					
	E		D		A		E		D		A
1 E	1-01	D	01	A	01	E	2-01	D	05	A	03
2 E	1-02	D	02	A	02	E	2-02	D	06	A	04
3 E	1-03	D	03	A	05	E	2-03	D	07	A	07
4 E	1-04	D	04	A	06	E	2-04	D	08	A	08
E: all E all Y all None   D: all D all Y all None   A: all A all None   Show gain											

## 2.5. Configuration possibilities from three “devices”

It is now possible to :

- VGA screen : as shown below, all settings are accessible via the VGA screen.
- Remote control panel : details about setting reorganisation via different screens can be found in the “Remote Control Panel” section of this document
- Web interface : a newly-designed web interface allows the engineer to configure the server remotely.

More details concerning similarities or differences between the “devices” can be found in other sections by clicking on the header links in this document.



## VGA SCREEN

### 1. Multicam Setup Screen

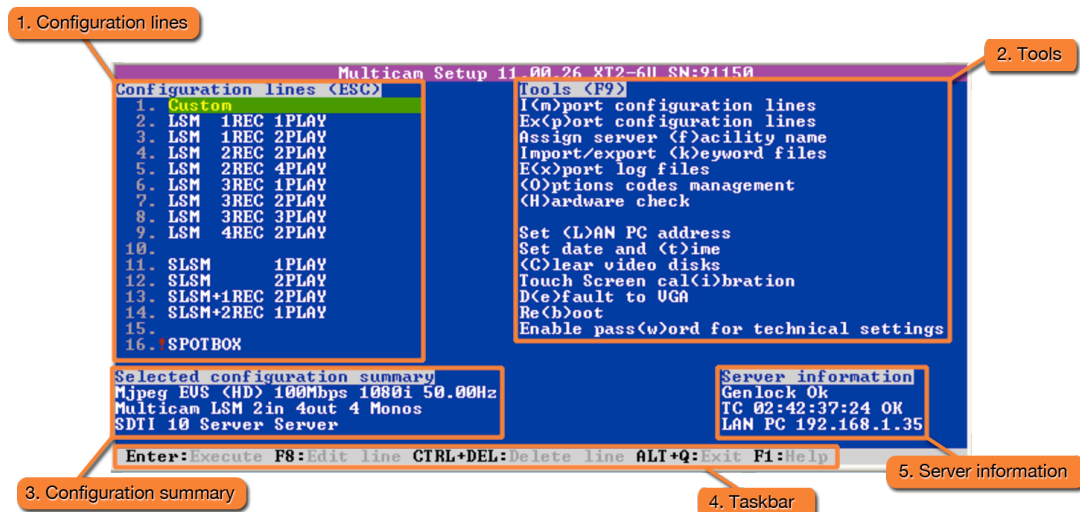
After booting the server, a setup screen will be displayed. As you can see, hardware descriptions have been removed but new zones have been integrated into the window.

The five main zones are:

1. Configuration lines zone
2. Tools zone
3. Configuration summary zone
4. Taskbar
5. Server information

The new main features of EVS' setup screen are:

- Default configuration lines are always available.
- When a configuration line is highlighted, a configuration summary is displayed at the bottom of the screen (codec, video bitrate, video standard, basic configuration, in & out channels, network setup).
- The ability to move, copy and paste configuration lines with their specific parameters (one line = one configuration).
- Each configuration line now includes, besides the usual video & audio parameters, all parameters, including the SDTI network settings, GigE IP addresses but also all the operational settings. When exported or imported, the configuration lines will carry all settings with them.
- The only setting that is not imported nor linked to a line is the LAN PC setting.
- The tools zone includes important functions that are accessible directly.



#### 1.1 Configuration lines zone

This zone contains all 16 configuration lines with all Multicam settings. To select a line, move the green cursor line using the up and down arrows.

Once selected, the following functions become available:

- **CTRL + C** : to copy the selected configuration line.
- **CTRL + V** : to paste the configuration line.
- **F8** : to edit the configuration line. This will display the configuration screen allowing a change in settings for the selected configuration line.
- **CTRL + DEL** : to delete the configuration line.
- **ENTER** : to execute the configuration line. This will start up the Multicam software with settings corresponding to the configuration line.
- **ALT + Q** : to shut down the Multicam software.
- **F1** : to open the Help window.

## 1.2 Tools zone

In previous versions of the Multicam software, maintenance functions were only accessible by pressing the F9 key.

With the new Multicam 11, these functions are accessible via the “Multicam setup” screen. As a shortcut, pressing the corresponding letter (indicated between brackets) will execute the function.

The Multicam 11 also features three new functions in the “Tools” menu.

- **Assign server (f)acility name**  
Each server can have an individual facility name. This feature allows the customer to identify machines with an assigned name instead of the machine's serial number.
- **Set (L)AN PC address**  
With this tool you can change the server's IP address used for technical purposes; like the web interface or XNet Monitor. But you need to reboot the server after changing the IP address.
- **Enable pass(w)ord for technical settings**  
This function hides the technical settings on the remote control panel. In this case, the operator has access only to the system's operational settings.

It is still possible to change technical settings from the VGA or via the Web interface, but the system will require a password.

## 1.3 Configuration summary zone

This window gives the user an overview of the selected configuration line. This summary will show:

- Codec and video bitrate
- Resolution and field rate
- Multicam/Spotbox mode and In & Out channel setup
- SDTI network settings

## 1.4 Taskbar

- The taskbar at the bottom of the screen displays shortcut keys for various functions.

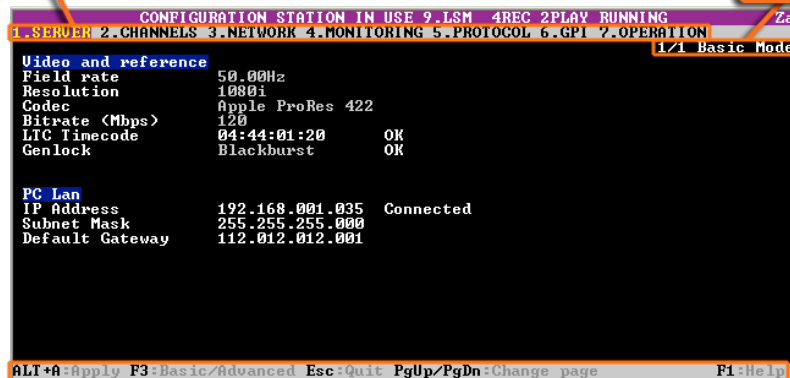
## 1.5 Server information

- Genlock, timecode information and the PC LAN IP address of the server are displayed in this section.

## 2. Configuration Screen

### 1. Configuration Tabs

### 2. Page/Mode



### 3. Taskbar

### 2.1 Configuration tabs

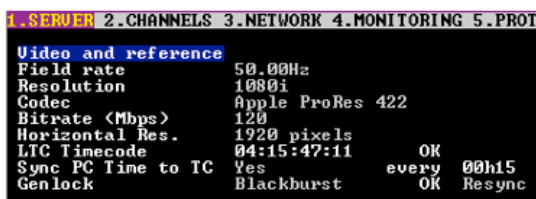
The configuration screen contains reorganized tabs.

There are six tabs for technical settings and one for operational settings.

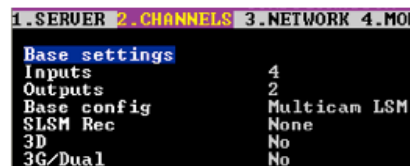
You can navigate between tabs by using the left and right arrow keys.

When changing technical settings, the server needs to be rebooted only in certain cases.

When rebooting is required, the setting in question will be highlighted in blue in the Web interface section of this document.



Video & Reference settings



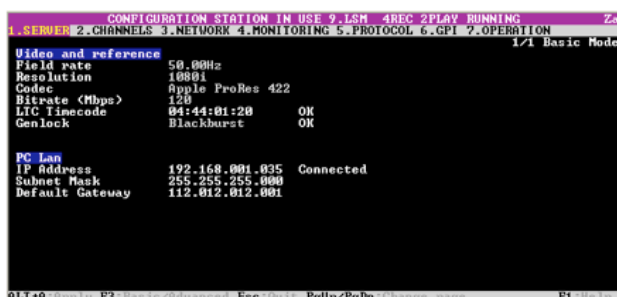
Channel Base Settings

### 2.2 Basic vs. Advanced mode

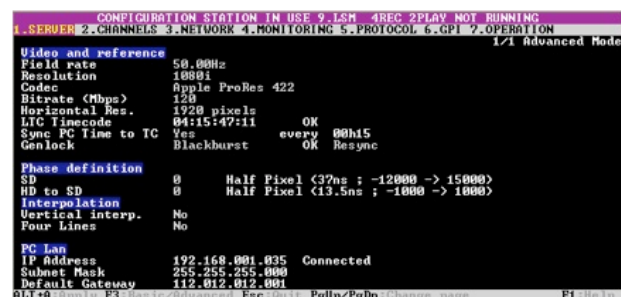
The classification in Basic or Advanced parameters has also undergone a change in the Configuration screen.

A Basic mode or an Advanced mode is available within each configuration tab.

The F3 key switches from one mode to another.



Server tab in Basic mode



Server tab in Advanced mode



## 2.3 Pages within the tab

When more than one page is available in a configuration tab, it is indicated in the top right corner of the screen.

To navigate between the pages, you can use the PgUp/PgDn keys.



## 2.4 Taskbar

Available shortcuts for page navigation:

- To apply changes: **ALT + A**
- Toggle between Basic and Advanced mode: **F3**
- Quit: **ESC**
- To navigate between pages: **PgUp/PgDn**

## 2.5 Operational settings

The seventh tab is used for operational settings.

It displays the same Operational settings as the ones of the Remote Control panel.



## 2.6 New features

Details about setting changes, such as the ones needing a reboot of the system, or a description of new features can be found in the “web interface” section.

[Click here to discover the web interface](#)



## WEB INTERFACE

### 1. Introduction

This section gives an overview of the new web interface developed for the Multicam 11. It allows the engineer to configure and monitor the server via a web browser.

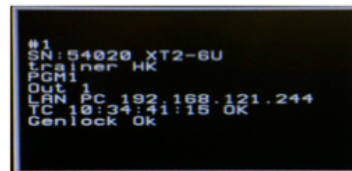
This document explains how to access the EVS server via a web interface. It also features an interactive section allowing you to move within the configuration screens.

#### 1.1 Accessing the server

Once the server is booted, new information is displayed on the OSD output channels.

This information contains:

- Number of the output channel
- Serial number and hardware description
- Output channel name
- Output connector number
- PC LAN IP Address
- Timecode and timecode status
- Genlock status



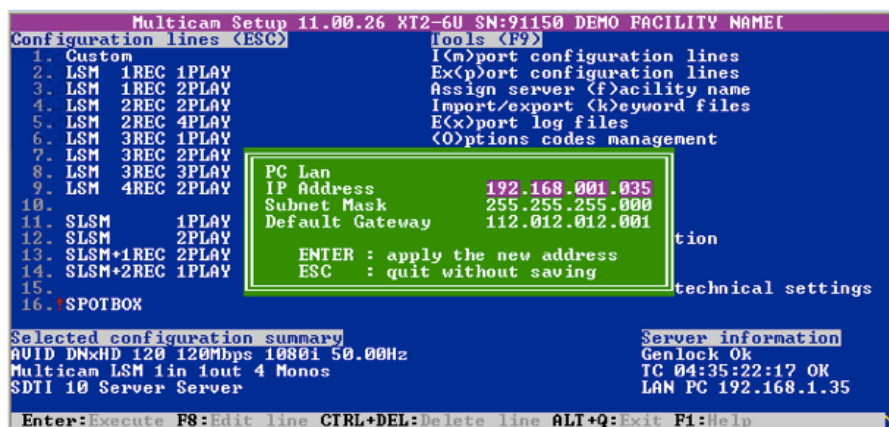
The server's PC LAN IP address is required for access.

Once the browser is opened, type the IP address of the server : for instance <http://192.168.121.244>

This will open the web interface.

The interface will work on every browser as long as machines (PC and server) are in the same network range.

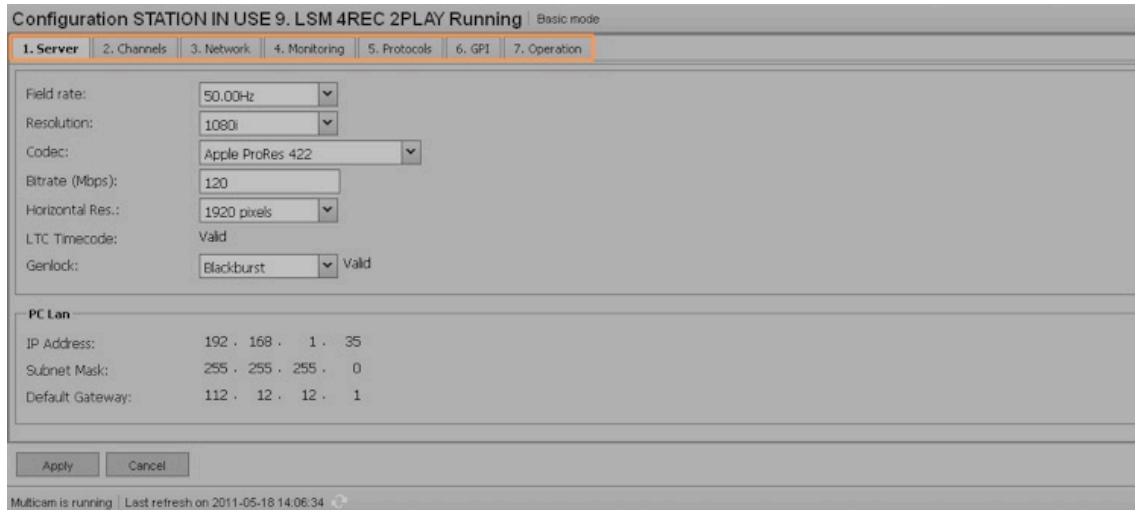
If the server's PC LAN IP address is not in your range, you can change the address from the VGA screen:  
Use the Set (L)AN PC address function from the F9 Tools menu.



## 1.2 Web interface presentation

As you can see, a tab structure similar to the VGA screen is available on the web interface.

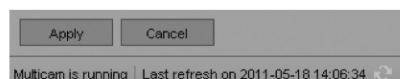
Click on the respective tab to navigate from one tab to another.



Click on the button at the end of the Title bar to move back and forth from Basic mode to Advanced mode.



Two buttons are located at the bottom of the screen for applying or cancelling changes.



### 1.3 Tab description of the web interface

The parameters that need a reboot of the system are highlighted in blue on the following screenshots.

- **Server tab**

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running Advanced mode

1. Server 2. Channels 3. Network 4. Monitoring 5. Protocols 6. GPI 7. Operation

Field rate: 50.00Hz  
 Resolution: 1080i  
 Codec: Apple ProRes 422  
 Bitrate (Mbps): 120  
 Horizontal Res.: 1920 pixels  
 LTC Timecode: Valid  
 Sync PC Time to TC: ☒ every 00h15  
 Genlock: Blackburst Valid Resync

The server only needs to be rebooted after changing one of the main software parameters.  
 Parametres requiring a system reboot are highlighted in blue.

**Phase definition**  
 SD: 0 Half pixel (37ns ; -12000 -> 15000)  
 HD to SD: 0 Half pixel (13.5 ns ; -1000 -> 1000)

**Interpolation**  
 Vertical interp.: ☐ Use these settings when working with slowmotion images to enhance the pictures.  
 Four Lines: ☐

**PC Lan**  
 IP Address: 192 . 168 . 1 . 35  
 Subnet Mask: 255 . 255 . 255 . 0  
 Default Gateway: 112 . 12 . 12 . 1

The PC Lan connection is required to set up the server via the web interface or the XNet Monitor application.

Apply Cancel

Multicam is running | Last refresh on 2011-05-18 14:06:34



- Channels tab

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running **Advanced mode**

1. Server 2. **Channels** 3. Network 4. Monitoring 5. Protocols 6. GPI 7. Operation

**Base settings**

Inputs: 4  
Outputs: 2  
Base config: Multicam LSM  
SLSM Rec: None  
3D: ☐  
3G/Dual: No

**Port settings**

RS422 #1: EVS Remote  
RS422 #2: EVS Remote  
RS422 #3: EVS IPDP  
RS422 #4: EVS AVSP  
RS422 #5: XtenDD35  
RS422 #6: Sony BVW75

**Audio settings**

Audio connectors: 16 XLR A + 16 BNC D  
Number of tracks: 4 Monos  
Audio full scale: 22  
Ancillary mode: 24 Bits  
Sample rate conv.: ☒

Audio connectors' setting should not be altered in the drop-down menu unless a back panel hardware change has taken place.

**Audio monitoring**

Mon #1: OUT1 01 0 dB  
Mon #2: OUT1 02 0 dB  
Mon #3: OUT1 03 0 dB  
Mon #4: OUT1 04 0 dB

The operator can change settings via the Remote Control panel during a live

**Advanced audio settings : inputs**

	OUT1 PGM 1			OUT2 PGM 2		
	E	D	A	E	D	A
1	E 1-01	D 01	A 01	E 2-01	D 05	A 03
2	E 1-02	D 02	A 02	E 2-02	D 06	A 04
3	E 1-03	D 03	A 05	E 2-03	D 07	A 07
4	E 1-04	D 04	A 06	E 2-04	D 08	A 08

E: all E all Y all None D: all D all Y all None A: all A all None Show gain

**Advanced audio settings : Outputs**

The routing of audio channels can be changed without rebooting the system. However, changing to or from Dolby requires a reboot.

**Channel and control settings**

	Name	Main ctrl	Sec. ctrl	Mode	OSD	
OUT1 PGM1	PGM1	EVS Remote	EVS IPDP	3	Parall	Main
OUT2 PGM2	PGM2	EVS Remote	Sony BVW75	6	Parall	Main
IN1 REC1	REC1	EVS Remote			Exclus	Main
IN2 REC2	REC2	EVS Remote			Exclus	Main
IN3 REC3	REC3	EVS Remote			Exclus	Main
IN4 REC4	REC4	EVS Remote			Exclus	Main

**Recorders settings**

Loop recording: ☒  
Clip capacity: Global

IN1 25 % loop  
IN2 25 % loop  
IN3 25 % loop  
IN4 25 % loop

**Mix on one channel**

☒ OUT1  
☒ OUT2

Mix on one channel is available only if V3X hardware is on hand.

**Timecode settings**

	LTC	User	Primary TC
CAM A LTC	HANC VIT	LTC	
CAM B LTC	HANC VIT	LTC	

**SMPTe 334M packets management**

	PGM1	PGM2	CAM A	CAM B	CAM C	CAM D
Decoding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Encoding	<input type="checkbox"/>	<input type="checkbox"/>				
Custom 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Custom 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
SD OUT	<input type="checkbox"/>	<input type="checkbox"/>				
Encoding	<input type="checkbox"/>	<input type="checkbox"/>				

**Timecode insertion settings**

	PGM1	PGM2	CAM A	CAM B	CAM C	CAM D
IN LOOP						
D-VITC						
Lines	19-21	19-21	19-21	19-21		
HD OUT						
HancLTC	<input type="checkbox"/>	<input type="checkbox"/>				
Userbits	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
HancVITC	<input type="checkbox"/>	<input type="checkbox"/>				
Userbits	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
SD OUT						
D-VITC	<input type="checkbox"/>	<input type="checkbox"/>				
Lines	19-21	19-21				
CleanVBI	<input type="checkbox"/>	<input type="checkbox"/>				

Apply Cancel

Multicam is running | Last refresh on 2011-05-18 14:06:34

- Network tab

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running Advanced mode

1. Server 2. Channels 3. Network 4. Monitoring 5. Protocols 6. GPI 7. Operation

**SDTI**

Speed: No Relay 1485  
 Net Name: Server  
 Net Number: 10  
 Type: Server

The SDTI type setting defines server privileges on the XNet SDTI network. One network video server needs to be set to "Server" type. If no server type has been defined on the XNet network, it will not be activated. If more than one server has been defined to "Server" type, only the first to connect to the network will be assigned as the "Server." Other network servers can be set either to the "Master" type (clip access from other servers) or the "Client" type (clips must be available on the network but they don't access clips from other servers). The server with the highest serial number will be the first one to take the Server role as soon as the initial one goes offline.

**SDTI Priorities**

PGM1 PGM2  
 High Priority ☐ ☐

**Gigabit Ethernet Priorities**

	Port 1				Port 2			
IP Address	127	0	0	1	127	0	0	2
Subnet Mask	127	0	0	1	127	0	0	2
Default Gateway	127	0	0	1	127	0	0	2

Gigabit ports are used to transfer media to and from the server. Both parallel ports are connected on the board and can be used as a main and backup network. It is not possible to use the ports on the same network or to team them to a 2 Gigabit connection

Apply Cancel

Multicam is running Last refresh on 2011-05-18 14:06:34

- Monitoring tab

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running Advanced mode

1. Server 2. Channels 3. Network 4. Monitoring 5. Protocols 6. GPI 7. Operation

**OSD**

Genlock Error: ☒  
 Disk Error: ☒  
 Network error: ☒  
 Clip name: Name

**Downconverted outputs**

Char OUT J4, J1: HD CVBS  
 Aspect ratio: 16:9  
 SD Edge Enh.: 66 %  
 REC HD->SD Low latency: ☒

This setting depends whether the J4 or J1 connector has been connected on the video codec boards

Apply Cancel

Multicam is running Last refresh on 2011-05-18 14:06:34



- Protocols tab

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running Advanced mode

1. Server 2. Channels 3. Network 4. Monitoring **5. Protocols** 6. GPI 7. Operation

**RS422 Protocols**

Id Type: ID LSM

**Sony BYW**

FFW/REW speed: 50 X

Use guarband: ☐ (Clip Pre/PostRoll)

List Remote CAM: ☐

SONY Parallel Status: ☒

**Edit Rec 1 port #--**

**Playlist**

Default PL: 60

**Time Code**

Serial Sony VITC: Edit Tc

Insert TC in SDI: ☒ Edit Tc

User TC of created clips: Edit Tc

**Audio**

Edit audio Fade: No

**Channel**

EE: ☒

Stop Behavior: PB

**OSD**

OSD on Output: ☒

Display sel: Tc Status Name

TC H-Pos: 4 Name H-Pos: 0

TC V-Pos: 10 Name V-Pos: 0

**Edit Rec 2 port #--**

**Playlist**

Default PL: 70

**Time Code**

Serial Sony VITC: Edit Tc

Insert TC in SDI: ☒ Edit Tc

User TC of created clips: Edit Tc

**Audio**

Edit audio Fade: No

**Channel**

EE: ☒

Stop Behavior: PB

**OSD**

OSD on Output: ☒

Display sel: Tc Status Name

TC H-Pos: 4 Name H-Pos: 0

TC V-Pos: 10 Name V-Pos: 0

**RS422 VarID**

Uniqueness: Local

Length: 32

Format: ASCII

**VDCP visibility**

Port #1: 10;

Port #2: 10;

Port #3: 10;

Port #4: 10;

Port #5: 10;

Port #6: 10;

Apply Cancel

Multicam is running | Last refresh on 2011-05-18 14:06:34



- GPI tab

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running Advanced mode

1. Server 2. Channels 3. Network 4. Monitoring 5. Protocols 6. GPI 7. Operation

**GPI Settings**

TTL GPIs set as GPIs: In

**GPIs IN**

#	Channel/Device	Port	Function	Delay
1	PGM1	--	-----	<input type="checkbox"/> 0 s 0
2	PGM2	--	-----	<input type="checkbox"/> 0 s 0
3	-----	--	-----	<input type="checkbox"/> 0 s 0
4	-----	--	-----	<input type="checkbox"/> 0 s 0
5	RMT1	--	-----	<input type="checkbox"/> 0 s 0
6	RMT1	--	Previous	<input type="checkbox"/> 0 s 0
7	RMT1	--	Next	<input type="checkbox"/> 0 s 0
8	RMT1	--	Play	<input type="checkbox"/> 0 s 0

**GPIs OUT**

#	Function	Type	Advance	Pulse duration
1	-----	-----	<input type="checkbox"/> 0 s 0	<input type="checkbox"/> 0 s 0
2	-----	-----	<input type="checkbox"/> 0 s 0	<input type="checkbox"/> 0 s 0
3	-----	-----	<input type="checkbox"/> 0 s 0	<input type="checkbox"/> 0 s 0
4	-----	-----	<input type="checkbox"/> 0 s 0	<input type="checkbox"/> 0 s 0

**TALLY**

Tally: ☐

Add Clip to PL: 99

Clips guarbands: 0

Apply Cancel

Multicam is running | Last refresh on 2011-05-18 14:06:34



- Operation tab

Configuration STATION IN USE 9. LSM 4REC 2PLAY Running Advanced mode

1. Server 2. Channels 3. Network 4. Monitoring 5. Protocols 6. GPI 7. Operation

**OSD**

Cue number on OSD: ☒  
Keyword info: ☐  
OSD on outputs: ☒  
OSD on inputs: ☒  
Background: ☐

**Audio meters OSD**

Audio meters: ☒  
DB Adjust: 0.0  
Style: Light Bars  
Thickness: Thin

OSD audimeters are available in five styles and three types of thickness.

**Clips**

Automake clip for cam A: ☒  
Automake clip for cam B: ☒  
Automake clip for cam C: ☒  
Automake clip for cam D: ☒  
Automake clip for cam E: ☒  
Make clip rem. trains: Ctrl'd Cams  
Guarbands: 4 s 5 fr  
Default clip duration: 0 m 3 s 10 fr  
Autoname clips: Disable  
Clip post-roll: 1 s 20 fr  
Mark cue points: Live  
Preroll: 0 s 5 fr  
Record trains OUTs: Play Through  
Default copy/move: SOTI  
Freeze on cue points: ☐  
Protocol Receive page: 6  
Playlist Receive page: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☒ 10  
Timeline Receive page: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☒ 10

**Playlist**

Video effect duration: 0 s 10 fr  
Audio locked to video: ☒  
Audio effect duration: 0 s 0 fr  
Wipe type: Vert. L>R  
Default playlist speed: Unknown  
Insert in playlist: Before  
Confirm Ins/Del clips: ☐  
Split audio editing: ☐  
Extend split transition: Center Cut  
Swap audio tracks: Auto  
Playlist loop: ☐  
Playlist auto fill: All Cams  
Fade to/from color: Black  
Load playlist: Always

**Timeline**

Mono per group: 2

**Protection**

Protect pages: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10  
Clip edit by network: ☐  
Confirm delete clips/playlist: Off

**Keywords**

Keyword files: -----  
Keyword mode: List

**Push**

Push Target: Gigabit  
Push Mode: Short  
Push Receive page: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10





**Audio**  
Audio slow motion: ☐  
Lipsync value (ms):   
Aux track output:

**EVS Controller**  
Effect duration for take:  s  fr  
Fast jog:   
PGM Speed/var max (%):   
Lever engage mode:   
Second lever range:   
Recall clip toggle: ☒  
Record key:   
Pointing device:   
VGA & Remote sync:   
Call channel VGA: ☐  
PGM/PRV mode: ☒  
Internal loop mode:   
Grab image: ☐  
Browse button:

**Hypermotion controller**  
Hypermotion: ☐  
Recorder:   
Remote mode:   
Port:   
IP Address:  ·  ·  ·   
Dial Speed (X):

**Special effects**  
Paint/target transition:  s  fr  
Set colour for:   
Colour:   
Custom Y:   
Custom U:   
Custom U:   
Split screen tacking: ☐  
Paint/target OSD mon.: ☒  
Offside line: ☐  
External offside: ☐  
IP Address:  ·  ·  ·   
Default tool:   
Auto mark: ☐

Special effects settings are only available if the Paint option code has been activated

Multicam is running | Last refresh on 2011-05-18 14:06:34



## LSM REMOTE MENUS

### 1. Remote Control Panel

You can still access the Setup menu with the Shift + D combination from the Main menu.

However, from the Multicam 11 on, this setup menu only includes operational settings. It simplifies the operator's job because only the important parameters will be visible. Operational settings are exactly the same as the ones in the "7. Operation" tab of the VGA or web interface.

These parameters have also been reorganised in groups and in a more logical way. For instance, there is now a "Protection" group, a "Push" group, etc.

If needed, the operator is also able to access most technical settings by pressing the F0 key.

The remote's jogwheel can be used to move between menus and change settings.

MAIN SETUP PAGE			
4Rec 2Play	Server	Ver 11.00.26	
F1: 1 Remote	F6: Exit		
F2: 2 Remotes	F7: Clear all clips		
F3: 3 Remotes	F8: Stop Record		
F4:	F9: Fill Playlist		
F5: Char. On/Off	F0: Technical setup		
Split	Paint	Target	Setup
1 PGM+PRV	3 PGM		

#### Technical settings

Phase definition		T1.1
[F1] SD	: ---- half pixels	
[F2] SD to HD	: ---- half pixels	
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn		

Interpolation		T1.2
[F1] Vertical	: Yes	
[F2] Four lines	: No	
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn		

Base		T2.1
[F1] Inputs	: 3	
[F2] Outputs	: 3	
[F3] Base config	: Multicam LSM	
[F4] SLISM REC	: Single HD SLISM 3x Alt	
[F5] 3D	: No	
[F6] 3G/Dual	: 3G	
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn		

#### Operational settings

OSD		1.1
[F1] Cue number on OSD	: Yes	
[F2] Keyword info	: Yes	
[F3] OSD on outputs	: Yes	
[F4] OSD on inputs	: Yes	
[F5] Background	: Yes	
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn		

Audio meters OSD		1.2
[F1] Audio meters	: Yes	
[F2] DB Adjust	: 00	
[F3] Style	: Light bars	
[F4] Thickness	: Thin	
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn		

Clips		2.1
[F1] Auto make clip for cam A	: Yes	
[F2] Auto make clip for cam B	: Yes	
[F3] Auto make clip for cam C	: Yes	
[F4] Auto make clip for cam D	: Yes	
[F5] Auto make clip for cam E	: Yes	
[F6] Make clips rem. trains	: Ctrlled cam	
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn		



## Technical settings

```

Audio T2.2
[F1] Audio connectors : None
[F2] Number of Tracks : 16
[F3] Audio Full Scale : 22
[F4] Ancillary mode   : 20
[F5] Sample rate conv : Yes

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Port T2.3
[F1] RS422 #1      : Remote
[F2] RS422 #2      : Remote
[F3] RS422 #3      : Remote
[F4] RS422 #4      : Remote
[F5] RS422 #5      : Remote
[F6] RS422 #6      : Remote

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Audio Monitoring T2.4
#      Channel      Mono
1  [F1] OUT 1      [F5] 1
2  [F2] OUT 2      [F6] 2
3  [F3] OUT 3      [F7] 3
4  [F4] OUT 4      [F8] 4

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Control T2.5
      Main Ctrl      Sec Ctrl
OUT1 [F1] Remote  -- [F5] IPDP   01
OUT2 [F2] ----- -- [F6] ----- --
OUT3 [F3] ----- -- [F7] IPDP   01
OUT4 [F4] ----- -- [F8] IPDP   01

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Control T2.6
      Main Ctrl      Sec Ctrl
IN1  [F1] Remote  -- [F5] IPDP   01
IN2  [F2] ----- -- [F6] ----- --
IN3  [F3] ----- -- [F7] IPDP   01
IN4  [F4] ----- -- [F8] IPDP   01

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

## Operational settings

```

Clips 2.2
[F1] Guardbands      : 05s00fr
[F2] Default clip duration : 000m04s00fr
[F3] Auto name clips   : No
[F4] Clip post-roll    : 02s00fr
[F5] Mark cue points   : Live
[F6] Preroll           : 00s05fr

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Clips 2.3
[F1] Record trains OUTs : Play Through
[F2] Default copy/move   : SDTI
[F2] Freeze on cue points : No
[F3] Protocol rcv pg     : 6
[F4] PLST rcv pg        : 1 2 3 4 5 6 7 8 9 0
[F5] Tline rcv pg       : 1 2 3 4 5 6 7 8 9 0

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Playlist 3.1
[F1] Video effect duration : 00s10fr
[F2] Audio locked to video : No
[F3] Audio effect duration : 02s07fr
[F4] Wipe type              : Vert. L>R
[F5] Default playlist speed : Unknown
[F6] Insert in playlist     : Before

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Playlist 3.2
[F1] Confirm Ins/Del clips : No
[F2] Advanced audio editing : No
[F3] Extend split transition: Center Cut
[F4] Swap audio tracks      : Auto
[F5] Playlist loop          : No
[F6] Playlist auto fill     : All Cams

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```

```

Playlist 3.3
[F1] Fade to/from colour : Black
[F2] Load Playlist       : Always

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn

```



## Technical settings

```
Control T2.7
Mode OSD
OUT1 [F1] Parall [F5] Main
OUT2 [F2] Parall [F6] Main
OUT3 [F3] Parall [F7] Main
OUT4 [F4] Parall [F8] Main

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Control T2.8
Mode OSD
IN1 [F1] Parall [F5] Main
IN2 [F2] Parall [F6] Main
IN3 [F3] Parall [F7] Main
IN4 [F4] Parall [F8] Main

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Mix on one channel T2.9
OUT1 [F1] No
OUT2 [F2] No
OUT3 [F3] No
OUT4 [F4] No

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Recorders settings T2.10
[F1] Loop recording : Yes
[F2] Rec auto start : Yes
[F3] Clip capacity : Global

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Recorders settings T2.11
[F1] IN1 xx % loop [F6] IN6 xx % loop
[F2] IN2 xx % loop
[F3] IN3 xx % loop
[F4] IN4 xx % loop
[F5] IN5 xx % loop

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

## Operational settings

```
Timeline 4.1
[F1] Mono per group : 2

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Protection 5.1
[F1] Protect pg : 1 2 3 4 5 6 7 8 9 0
[F2] Clip edit by Network : No
[F3] Confirm del clp/plst : No

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Keywords 6.1
[F1] Keyword file : -----
[F2] Keyword mode : List

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Push 7.1
[F1] Target : SDTI
[F2] Target 1 : -----
[F3] Target 2 : -----
[F4] Mode : Short
[F5] Receive pg : 1 2 3 4 5 6 7 8 9 0

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Audio 8.1
[F1] Audio slow motion : No
[F2] Lipsync value (ms) : 0
[F3] Aux Track output : Prv

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```



## Technical settings

```

Time Code                               T2.12
      User TC                Primary TC
IN1 [F1] HANC LTC    [F5] LTC
IN2 [F2] HANC LTC    [F6] LTC
IN3 [F3] HANC LTC    [F7] LTC
IN4 [F4] HANC LTC    [F8] LTC

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

SMPTE 344M                               T2.13
PGM1 [F1] Yes          CAM A [F5] Yes
PGM2 [F2] Yes          CAM B [F6] Yes
PGM3 [F3] Yes          CAM C [F7] Yes
PGM4 [F4] Yes          CAM D [F8] Yes

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

SDTI                               T3.1
      High Priority
[F1] Speed : 1485    [F5] PGM1 : No
[F2] Net Nb: 3      [F6] PGM2 : No
[F3] Type  : Server [F7] PGM3 : No
                        [F8] PGM4 : No

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

SDTI                               T3.2
High Priority
[F1] PGM1 : No
[F2] PGM2 : No
[F3] PGM3 : No
[F4] PGM4 : No

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

Gigabit Ethernet #1                   T3.3
[F1] IP Address  : ---.---.---.---
[F2] Subnet Mask : ---.---.---.---
[F3] Dft gateway : ---.---.---.---

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

## Operational settings

```

EVS Controller                               9.1
[F1] Effect duration for take : 00s05fr
[F2] Fast jog                : 20x
[F3] PGM Speed/Var max      : 50%
[F4] Lever engage mode      : Direct
[F5] Second lever range     : -100%<->+100%
[F6] Recall clip toggle     : Yes
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

EVS Controller                               9.2
[F1] Record key              : Start REC + Live
[F2] Pointing device         : Tablet
[F3] VGA&Remote sync        : Yes
[F4] Call channel VGA        : No
[F5] PGM/PRV mode            : Yes
[F6] Internal Loop           : Video+Audio
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

EVS Controller                               9.3
[F1] Grab image              : No
[F2] Default XFile           : -----#--
[F3] Browse button           : Browse

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

Cam mapping                               10.1
[F1] Authorize cam mapping : Yes
[F2]      Cam C

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```

```

Hypermotion controller                   11.1
[F1] Hypermotion            : No
[F2] Recorder                : Cam C
[F3] Remote mode             : Hypermotion + LSM
[F4] Port                    : RS422 #6
[F5] IP Address              : 000.000.000.000
[F6] Dial Speed              : 10x
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn

```



## Technical settings

```
Gigabit Ethernet #2                                T3.4
[F1] IP Address   : ---.---.---.---
[F2] Subnet Mask  : ---.---.---.---
[F3] Dft gateway  : ---.---.---.---

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
OSD                                                  T4.1
[F1] Genlock Error : Yes
[F2] Disk Error    : Yes
[F3] Network Error : Yes
[F4] Clip Name     : Yes

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Downconverted outputs                             T4.2
[F1] Char OUT J4   : HD
[F2] Char OUT J1   : CVBS
[F3] OUT B J3      : HD
[F4] Aspect Ratio  : 4:3 L Box
[F5] SD Edge Enh.(%): 66
[F6] REC HD->SD Low latency : Yes
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
RS422 Protocols                                   T5.1
[F1] ID Type       : ID LSM

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Sony BVW                                           T5.2
[F1] FFW/REV speed : 50 x
[F2] Use guardbands : No
[F3] List remote cam : No
[F4] XNet : 01
[F5] Sony parallel status : No

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

## Operational settings

```
Special effects                                     12.1
[F1] Paint/target transition : 00s05fr
[F2] Set colour for : Wipe Split
[F3] Colour : White
[F4] Custom Y : 240
[F5] Custom U : 128
[F6] Custom V : 128
[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Special effects                                     12.2
[F1] Split screen tracking : No
[F2] Paint/Target OSD mon. : SD

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Special effects                                     12.3
[F1] Offside line : No
[F2] External offside : No
[F3] IP address : 127.000.000.000
[F4] Default tool : Offside
[F5] Auto mark : No

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```



## Technical settings

```
Edit Rec 1 T5.3
[F1] Default playlist : 60
[F2] Edit audio fade : No
[F3] Serial Sony VITC : Edit TC
[F4] Insert TC in SDI : Yes
[F5] : Edit TC

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Edit Rec 1 T5.4
[F1] User TC of created clp : User TC
[F2] EE : ON
[F3] Stop behavior : PB
[F4] OSD on Output : Yes
[F5] Display Sel : TC Status Name Error

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Edit Rec 1 T5.5
[F1] TC H-Pos : 4
[F2] Name H-Pos : 0
[F3] TC V-Pos : 4
[F4] Name V-Pos : 0

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Edit Rec 2 T5.6
[F1] Default playlist : 60
[F2] Edit audio fade : No
[F3] Serial Sony VITC : Edit TC
[F4] Insert TC in SDI : Yes
[F5] : Edit TC

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```

```
Edit Rec 2 T5.7
[F1] User TC of created clp : User TC
[F2] EE : ON
[F3] Stop behavior : PB
[F4] OSD on Output : Yes
[F5] Display Sel : TC Status Name Error

[Menu]Quit [Ctrl+F_]Dft [F9]PgUp [F0]PgDn
```



## Technical settings

```
Edit Rec 2 T5.8
[F1] TC H-Pos      : 4
[F2] Name H-Pos    : 0
[F3] TC V-Pos      : 4
[F4] Name V-Pos    : 0

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
GPI T6.1
[F1] TTL GPIs set as : IN

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
GPI IN T6.2
GPI# Channel/Device Port Function
1 [F1] PGM1 -- [F5] Play
2 [F2] PGM2 -- [F6] Play
3 [F3] PGM3 -- [F7] Play
4 [F4] PGM4 -- [F8] Play

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
GPI IN T6.3
GPI# Channel/Device Port Function
5 [F1] RMT1 -- [F5] Play
6 [F2] RMT2 -- [F6] Next
7 [F3] RMT3 -- [F7] Skip
8 [F4] RMT4 -- [F8] Pause

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
GPI IN T6.4
GPI# Delay GPI# Delay
1 [F1] Disable 5 [F5] Disable
2 [F2] Disable 6 [F6] Disable
3 [F3] Disable 7 [F7] Disable
4 [F4] Disable 8 [F8] Disable

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```





### Technical settings

```
GPI OUT T6.5
GPI#    Function      Type
1  [F1]  -----  [F5]  -----
2  [F2]  -----  [F6]  -----
3  [F3]  -----  [F7]  -----
4  [F4]  -----  [F8]  -----

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
GPI OUT T6.6
GPI#    Advance      Pulse Duration
1  [F1]  Disable     [F5]  01s00fr
2  [F2]  Disable     [F6]  01s00fr
3  [F3]  Disable     [F7]  01s00fr
4  [F4]  Disable     [F8]  01s00fr

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```

```
Tally T6.7
Tally      : On
Add clips to PL : 99
Clips guardbands : 00 sec

[Menu]Quit [Ctr+F_]Dft [F9]PgUp [F0]PgDn
```